Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

Claim 1 (Previously presented): A germicidal lamp for harsh environments adapted to be mounted on a wall, the wall having an insertion opening, the germicidal lamp comprising:

a low pressure germicidal tube which when energized emits UVC without substantial ozone and can withstand skin-effect cooling, the tube including an envelope and a stem, and

a fixture comprising a cover, a base and a tube holder, wherein

the base has an upper surface and a lower surface,

the lower surface of the base seals against the wall to thereby prevent splashing water, hosedirected water, ice formations, wind, dirt, rain and environmental corrosion to pass there through,

the cover is at least partially detachable from the base so that the cover can be moved from a first position wherein the cover covers the upper surface to a second position wherein the cover is at least partially separated from the base to at least partially expose the upper surface of the base,

the cover and the upper surface of the base define an interior space within the fixture,

the cover seals tightly to the base to thereby prevent splashing water, hose-directed water, ice formations, wind, rain and environmental corrosion from entering the interior space of the fixture,

the base includes an opening through which the envelope of the tube is passed for installation of the tube in the fixture and removal of the tube from the fixture,

installation of the tube causes a flange on the tube stem to sealingly engage the base which seals the opening in the base of the fixture from air flow into the fixture,

the tube-holder, including an engaging surface adapted to engage and secure the stem of the tube.

after the envelope has been inserted through the opening in the base of the fixture,

the cover and the base include exterior surfaces which are resistant to splashing water, hose-

directed water, ice formations, wind, rain and environmental corrosion.

Claim 2 (Previously presented): The germicidal lamp for harsh environments adapted to be mounted

on a wall of claim 1 wherein the tube comprises an elongate hollow cylinder.

Claim 3 (Previously presented): The germicidal lamp for harsh environments adapted to be mounted

on a wall of claim 1 wherein the tube is adapted such that UVC output from the tube peaks when an

air flow of between 200 cfm and 600 cfm at between 30° F. and 65° F. is passed across the tube.

Claim 4 (Previously presented): The germicidal lamp for harsh environments adapted to be mounted

on a wall of claim 3 wherein the tube is adapted such that UVC output from the tube peaks when an

air flow of 400 cfm at 55° F. is passed across the tube.

Claim 5 (Previously presented): The germicidal lamp for harsh environments adapted to be mounted

on a wall of claim 1 wherein the tube emits UVC of at least 10-µW/cm² per inch arc length at one

meter when an airflow of between 100 and 800 cfm is passed across the tube.

Claim 6 (Previously presented): The germicidal lamp for harsh environments adapted to be mounted

on a wall of claim 1 wherein the tube emits UVC of at least 10 µW/cm² per inch arc length at one

meter when an air flow of between 0° F. and 70° F. is passed across the tube.

Claim 7 (Previously presented): The germicidal lamp for harsh environments adapted to be mounted

on a wall of claim 1 having a weight of less than two lbs.

Claim 8 (Previously presented): The germicidal lamp for harsh environments adapted to be mounted

on a wall of claim 1 wherein the cover and the base of the fixture are separable.

Claim 9 (Previously presented): The germicidal lamp for harsh environments adapted to be mounted

on a wall of claim 1 wherein the cover and the base of the fixture have a clamshell design.

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Claim 10 (Previously presented): The germicidal lamp for harsh environments adapted to be

mounted on a wall of claim 1 wherein the base of the fixture includes the tube-holder.

Claim 11 (Previously presented): The germicidal lamp for harsh environments adapted to be

mounted on a wall of claim 10 wherein the tube-holder comprises a spring clamp attached to the

upper surface of the base of the fixture around the opening in the base, the spring clamp comprising a

spring, a mount and two stops, the spring comprising wire in a substantially flat U shape, the stem of

the spring's U being fixed by the mount to the upper surface of the base adjacent the opening such

that the arms of the U are disposed on opposite sides of the opening, the mount allowing the spring

to rotate such that the spring can be pivoted about the mount between a position substantially parallel

to the upper surface to a position substantially perpendicular to the upper surface, the stops holding

the spring in compression and parallel to the upper surface, wherein the spring clamp wraps at least

partially around the stem of the tube and presses the stem against the upper surface of the base of the

fixture and thereby holds the tube in place and the tube in the fixture.

Claim 12 (Previously presented): The germicidal lamp for harsh environments adapted to be

mounted on a wall of claim 1 wherein the tube-holder is attached to the cover of the fixture, wherein

the tube-holder is positioned in the cover such that, when the cover is closed onto the base of the

fixture, the tube-holder also engages the stem of the tube and holds the tube firmly in place.

Claim 13 (Previously presented): The germicidal lamp for harsh environments adapted to be

mounted on a wall of claim 1 wherein the tube-holder includes an electrical connector which engages

at least one electrode in the stem of the tube when the tube-holder engages the stem.

Claim 14 (Previously presented): The germicidal lamp for harsh environments adapted to be

mounted on a wall of claim 1, wherein installation of the tube causes the a flange on tube stem to

sealingly engage the base, forming a seal, the seal is adapted to be seated around the opening in the

base to thereby prevent splashing water, hose-directed water, ice formations, wind, dirt, rain and

environmental corrosion to pass there through.

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Claim 15 (Previously presented): The germicidal lamp for harsh environments adapted to be

mounted to a wall of claim 1 wherein the lower surface of the base seals against a wall, creating a

seal between the fixture and the wall that can withstand air pressure of at least 15 inches of water

gage.

Claim 16 (Previously presented): The germicidal lamp for harsh environments adapted to be

mounted on a wall of claim 1, the cover and the base of the fixture defining an interior space, the

fixture further comprising a power supply adapted to convert an input power source into a form

appropriate for the tube.

Claim 17 (Previously presented): The germicidal lamp for harsh environments adapted to be

mounted on a wall of claim 1 further including an electrical connector disposed within the fixture

adapted to electrically engage the stem of the tube, the germicidal lamp further including plural

electrical leads attached to the electrical connector and extending outside of the fixture, the leads

including piggyback connectors adapted to be connected to an air conditioner's power or fan

controller, whereby other connectors on the controller can be removed from the controller and

attached to the piggyback connector, and the piggyback can then be attached to the controller in place

of the other connector.

Claim 18 (Previously presented): The germicidal lamp for harsh environments adapted to be

mounted to a wall of claim 1, wherein installation of the tube causes a flange of the stem to sealingly

engage the base and form a seal between the tube and the fixture that can withstand air pressure of at

least 30 inches of water gage.

Claim 19 (Previously presented): The germicidal lamp for harsh environments adapted to be

mounted to a wall of claim 1, wherein the cover seals tightly to the base to form a seal between the

cover and the base that can withstand air pressure of at least 20 inches of water gage.

Claim 20 (Previously presented): An air handling system comprising the germicidal lamp of claim 1.

Claim 21 (Previously presented): An HVAC system comprising the germicidal lamp of claim 1.

Claim 22 (Previously presented): A germicidal lamp for harsh environments comprising:

a single-walled tube having a stemmed end with a flange, and a free end and comprising

an envelope disposed between the ends having a first cross-sectional shape,

a rigid stem secured to the envelope at the stemmed end, the stem including at least one

electrode; and

a fixture comprising:

a base having an upper surface and a lower surface, the base including an opening through

which the envelope of the tube is passed for installation of the tube in the fixture and removal of the

tube from the fixture, but through which the stem will not fully pass, the flange on the stemmed end

of the tube sealingly engaging the base when the tube is installed, the lower surface of the base

sealing against a wall to thereby prevent splashing water, hose-directed water, ice formations, wind,

rain and environmental corrosion to pass there through, the base including an exterior surface which

is resistant to splashing water, hose-directed water, ice formations, wind, rain and environmental

corrosion;

a socket disposed inside of the fixture and electrically coupled to at least one electrode;

a cover which is at least partially detachable from the base so that the cover can be moved

from a first position wherein the cover covers the upper surface and the cover can be partially moved

away from the base to at least partially expose the upper surface of the base, the cover sealing tightly

to the base to thereby prevent splashing water, hose-directed water, ice formations, wind, rain and

environmental corrosion from entering the interior space of the fixture, the cover including an

exterior surfaces which are resistant to splashing water, hose-directed water, ice formations, wind,

rain and environmental corrosion;

a tube holder including an engaging surface adapted to engage and secure the stem of the

tube.

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Claim 23 (Previously presented): The germicidal lamp for harsh environments of claim 22, the tube-

holder comprising a spring clamp coupled to the primary wall around the opening, the spring clamp

comprising a spring, a mount and two stops, the spring comprising wire in a substantially flat U

shape, the stem of the spring's U being fixed by the mount to the first wall adjacent the through-hole

such that the arms of the U are disposed on opposite sides of the through-hole, the mount allowing

the spring to rotate such that the spring can be pivoted about the mount from a position substantially

parallel to the first wall to a position substantially perpendicular to the first wall, the stops holding

the spring in compression and parallel to the first wall;

wherein the spring clamp wraps at least partially around the stem and presses the stem into

the primary wall and thereby holds the tube in place.

Claim 24 (Previously presented): The germicidal lamp for harsh environments of claim 22 wherein

the tube comprises a low pressure germicidal tube which, when energized, emits UVC without

substantial ozone and can withstand skin effect cooling in an air flow of between 200 cfm and 600

cfm at between 30° F. and 65° F.

Claim 25 (Previously presented): The germicidal lamp for harsh environments adapted to be

mounted on a wall of claim 22 wherein the tube emits UVC of at least 10-µW/cm² per inch arc

length at one meter when an airflow of between 100 and 800 cfm is passed across the tube.

Claim 26 (Previously presented): The germicidal lamp for harsh environments adapted to be

mounted on a wall of claim 22 wherein the tube emits UVC of at least 10 µW/cm² per inch arc

length at one meter when an air flow of between 0° F. and 70° F. is passed across the tube.

Claim 27 (Previously presented): The germicidal lamp for harsh environments adapted to be

mounted on a wall of claim 22 having a weight of less than two pounds.

Claim 28 (Previously presented): The germicidal lamp for harsh environments adapted to be mounted to a wall of claim 22 wherein the lower surface of the base sealing against a wall forms a seal between the fixture and the wall that can withstand air of at least 15 inches of water gage.

Claim 29 (Previously presented): The germicidal lamp for harsh environments adapted to be mounted to a wall of claim 22, wherein the flange on the stemmed end of the tube sealing engaging the base when the tube is installed forms a seal between the tube and the fixture that can withstand air pressure of at least 30 inches of water gage.

Claim 30 (Previously presented): The germicidal lamp for harsh environments adapted to be mounted to a wall of claim 22, wherein the cover sealingly tight to the base forms a seal between the cover and the base that can withstand air pressure of at least 20 inches of water gage.

Claim 31 (Previously presented): An air handling system comprising the germicidal lamp of claim 22.

Claim 32 (Previously presented): An HVAC system comprising the germicidal lamp of claim 22.

Claims 33-61 (Canceled):

Claim 62 (Amended): [The] A germicidal lamp for harsh environments [of claim 61,] comprising: means for emitting UVC without substantial ozone and for withstanding skin-effect cooling, the emitting means including an envelope and a stem

a fixture comprising

means for sealing against a wall to thereby prevent splashing water, hose-directed water, ice formations, wind, dirt, rain and environmental corrosion to pass there through

means for opening the fixture

means for sealing the fixture tightly to thereby prevent splashing water, hose-directed water, ice formations, wind, rain and environmental corrosion from entering the interior space of the fixture

means for allowing the emitting means to be passed through the fixture for installation and removal

means for sealing the fixture from air flowing into the fixture means for engaging and securing the emitting means

wherein the emitting means includes means for causing UVC output to peak when an air flow of between 200 cfm and 600 cfm at between 30° F and 55° F is passed across the emitting means wherein the emitting means includes means for causing UVC output to peak when an air flow of 400 cfm at 55 F is passed across the emitting means.

Claims 63-67 (Canceled):

Claim 68 (Amended): [The] A germicidal lamp for harsh environments [adapted to be mounted to a wall of claim 61,] comprising:

means for emitting UVC without substantial ozone and for withstanding skin-effect cooling, the emitting means including an envelope and a stem

a fixture comprising

means for sealing against a wall to thereby prevent splashing water, hose-directed water, ice formations, wind, dirt, rain and environmental corrosion to pass there through

means for opening the fixture

means for sealing the fixture tightly to thereby prevent splashing water, hose-directed water, ice formations, wind, rain and environmental corrosion from entering the interior space of the fixture

means for allowing the emitting means to be passed through the fixture for installation and removal

means for sealing the fixture from air flowing into the fixture means for engaging and securing the emitting means

wherein the emitting means includes means for causing UVC output to peak when an air flow of between 200 cfm and 600 cfm at between 30° F and 55° F is passed across the emitting means

[including] means for sealing the fixture against the wall, creating a seal between the fixture and the wall that can withstand air pressure of at least 15 inches of water gage.

Claim 69 (Amended): [The] A germicidal lamp for harsh environments [adapted to be mounted to a wall of claim 61,1 comprising:

means for emitting UVC without substantial ozone and for withstanding skin-effect cooling, the emitting means including an envelope and a stem

a fixture comprising

means for sealing against a wall to thereby prevent splashing water, hose-directed water, ice formations, wind, dirt, rain and environmental corrosion to pass there through

means for opening the fixture

means for sealing the fixture tightly to thereby prevent splashing water, hose-directed water, ice formations, wind, rain and environmental corrosion from entering the interior space of the fixture

means for allowing the emitting means to be passed through the fixture for installation and removal

> means for sealing the fixture from air flowing into the fixture means for engaging and securing the emitting means

wherein the emitting means includes means for causing UVC output to peak when an air flow of between 200 cfm and 600 cfm at between 30° F and 55° F is passed across the emitting means

[including] means for sealing the fixture to withstand air pressure of at least 30 inches of water gage.

Claims 70-71 (Canceled):